

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	APPARATUS AND METHODS FOR DETERMINING ISOTROPIC AND ANISOTROPIC FORMATION RESISTIVITY IN THE PRESENCE OF INVASION
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Application Number : 10/707813
Confirmation Number: 1812
First Named Applicant: THOMAS BARBER
Attorney Docket Number: 20.2895
Art Unit:



Examiner:

Search string: (3187252 or 4849699 or 5359324 or 6584408 or 4636731 or 20030146752).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
A	1	3187252	1965-06-01	HUNGERFORD			
	2	4849699	1989-07-18	GILL ET AL.			
	3	5359324	1994-10-25	CLARK ET AL.			
	4	6584408	2003-06-24	OMERAGIC			
Y	5	4636731	1987-01-13	SAVAGE ET AL.			

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
A	1	20030146752	2003-08-07	GIANZERO ET AL.			

Signature

Examiner Name	Date
<i>AW</i>	1/31/06

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Title of Invention

APPARATUS AND METHODS FOR DETERMINING
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THE PRESENCE OF INVASION

Application Number :

Confirmation Number:

First Named Applicant: THOMAS BARBER

Attorney Docket Number: 20.2895

Art Unit:

Examiner:

Search string: (3067383 or 3329889 or 5157605 or 3510757 or 5781436 or 3609521 or 4360777
or 6553314 or 5668475 or 6216089 or 6351127 or 6297639 or 6380744 or 6541979
or 6556015 or 6573222 or 6566881 or 6557794 or 6304086 or 6624634 or 6584408
or 6667620 or 6594584 or 6630830 or 20030085707 or 20020057210 or
20030184304 or 20030184488 or 20030200029 or 20020079899 or 20030229450
) .pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
1	1	3067383	1967-07-04	TANGUY			
	2	3329889	1970-05-05	TANGUY			
	3	5157605	1992-10-20	CHANDLER ET AL.			
	4	3510757	1970-05-05	HUSTON			
	5	5781436	1998-07-14	FORGANG ET AL.			
	6	3609521	1971-09-28	DESBRANDES			
	7	4360777	1982-11-23	SEGESMAN			
	8	6553314	2003-04-22	KRIEGSHAUSER ET AL.			
	9	5668475	1997-09-16	ORBAN ET AL.			
	10	6216089	2001-04-10	MINERBO			
	11	6351127	2002-02-26	ROSTHAL ET AL.			
	12	6297639	2001-10-02	CLARK ET AL.			
	13	6380744	2002-04-30	CLARK ET AL.			
	14	6541979	2003-04-01	OMERAGIC			
<input checked="" type="checkbox"/>	15	6556015	2003-04-29	OMERAGIC ET			

				AL.			
A	16	6573222	2003-06-03	NAIR ET AL.			
	17	6566881	2003-05-20	OMERAGIC ET AL.			
	18	6557794	2003-05-06	ROSTHAL ET AL.			
	19	6304086	2001-10-16	MINERBO ET AL.			
	20	6624634	2003-09-23	ROSTHAL ET AL.			
	21	6584408	2003-06-24	OMERAGIC			
	22	6667620	2003-12-23	HOMAN ET AL.			
	23	6594584	2003-07-15	OMERAGIC ET AL.			
Y	24	6630830	2003-10-07	OMERAGIC ET AL.			

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
A	1	20030085707	2003-05-08	MINERBO ET AL.			
	2	20020057210	2002-05-16	FREY ET AL.			
	3	20030184304	2003-10-02	HOMAN ET AL.			
	4	20030184488	2003-10-02	SMITH ET AL.			
	5	20030200029	2003-10-23	OMERAGIC ET AL.			
	6	20020079899	2002-06-27	FREY ET AL.			
Y	7	20030229450	2003-12-11	STRICKLAND			


Signature

Examiner Name	Date
<i>alt</i>	1/3/06

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Title of Invention	APPARATUS AND METHODS FOR DETERMINING ISOTROPIC AND ANISOTROPIC FORMATION RESISTIVITY IN THE PRESENCE OF AN INVASION						
Application Number :		10/707813					
Confirmation Number:		1812					
First Named Applicant:		Thomas Barber					
Attorney Docket Number:		20.2895					
Art Unit:		2635					
Examiner:		Albert K. Wong					
Search string:		(20030051914 or 20030051914 or 20050083161).pn					
<p><u>Certification:</u> This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:</p> <p>That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.</p>							
US Published Applications							
Note: Applicant is not required to submit a paper copy of cited US Published Applications							
init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
<i>R</i>	1	20030051914	2003-03-20	Bittar			
<i>—</i>	2	20030051914	2005-11-17	Barber et al.			
<i>R</i>	3	20050083161	2005-04-21	Minerbo et al.			
Signature							
Examiner Name				Date			
<i>du</i>				1/25/06			

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
20.2895SERIAL NO.
10/707,813LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT: Barber et al.

FILING DATE:
January 14, 2004

GROUP

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	AA			
	AB			
	AC			
	AD			
	AE			
	AF			
	AG			
	AH			
	AI			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No	
	AJ					
	AM					
	AN					
	AO					

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

A	AR	Hunka et al., "A New Resistivity Measurement System for Deep Formation Imaging and High-Resolution Formation Evaluation," SPE 20559, 65 th Annual Technical Conference and Exhibition, New Orleans LA, September 23-26, 1990 (pp. 295-307)
A	AS	Moran et al., "Effects of Formation Anisotropy on Resistivity-Logging Measurements," Geophysics, Vol. 44, NO. 7 (July 1979) pp. 1266 - 1286
A	AT	Amderson et al., "The Response of Induction Tools to Dipping, Anisotropic Formations," SPWLA 36 th Annual Logging Symposium, June 26 - 29, 1995, Paper D

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

2. This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

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Use several sheets if necessary)

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APPLICANT Barber et al.

FILING DATE
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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

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	BA			
	BB			
	BC			
	BD			
	BE			
	BF			
	BG			
	BH			
	BI			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No
	BL				
	BM				
	BN				
	BO				

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

A	BR	Anderson et al., "The Effect of Crossbedding Anisotropy on Induction Tool Response," SPWLA 39 th Annual Logging Symposium, May 26-29, 1998, Keystone, CO, Paper B
A	BS	Davydycheva et al., "An Efficient Finite-Difference Scheme for Electromagnetic Logging in 3D Anisotropic Inhomogeneous Media," Geophysics Vo. 68, No. 5 (September - October 2003) pp. 1525-1536.
	BT	

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awt

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